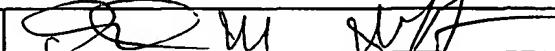


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Continuation of 09/694,836
Sheet	1	of	20	Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	UTSB 493 CIP CON (5)

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
		3,960,150		Hussain, et al.	06-01-1976	
		3,981,303		Higuchi, et al.	09-21-1976	
		3,986,510		Higuchi, et al.	10-19-1976	
		3,993,071		Higuchi, et al.	11-23-1976	
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		4,183,845		Kaetsu, et al.	03-18-1980	
		4,194,066		Kaetsu, et al.	03-18-1980	
		4,195,129		Fukui, et al.	03-25-1980	
		4,226,938		Yoshida, et al.	10-07-1980	
		4,272,617		Kaetsu, et al.	06-09-1981	
		4,283,325		Berthet, et al.	08-11-1981	
		4,295,762		Slovinsky	10-20-1981	
		4,298,002		Ronel, et al.	11-03-1981	
		4,321,117		Kaetsu, et al.	03-23-1982	
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		Office ³	Number ⁴	Kind Code ⁵ (if known)			
		PCT	WO 91/10425		Brown University Research Foundation	07-25-1991	
		PCT	WO 93/09176		Clover Consolidated, Limited	05-13-1993	
		PCT	WO 93/17669		Board of Regents, The University of Texas System	09-16-1993	
		PCT	WO 93/21266		Clover Consolidated, Limited	10-28-1993	
		EP	0 195 304		The Dow Chemical Company	09-24-1986	
		JP	1-324743		General Director National Circulatory Disease Hospital	08-12-1991	

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		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
		Attorney Docket Number	UTSB 493 CIP CON (5)
Sheet	2	of	20

U.S. PATENT DOCUMENTS

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		4,352,883		Lim	10-05-1982	
		4,359,483		Kaetsu, et al.	11-16-1982	
		4,376,059		Davis, et al.	03-08-1983	
		4,391,909		Lim	07-05-1983	
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		4,434,150		Azad, et al.	02-28-1984	
		4,450,150		Sidman	05-22-1984	
		4,511,478		Nowinski, et al.	04-16-1985	
		4,526,938		Churchill, et al.	07-02-1985	
		4,563,489		Urist	01-07-1986	
		4,590,068		Berthet, et al.	05-20-1986	
		4,605,622		Hasegawa, et al.	08-12-1986	
		4,637,931		Schmitz	01-20-1987	
		4,647,536		Mosbach, et al.	03-03-1987	

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INFORMATION DISCLOSURE
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Sheet 3 of 20 Attorney Docket Number UTSB 493 CIP CON (5)

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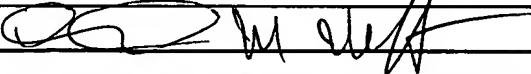
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Substitute for form 1449A/PTO				Complete If Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Continuation of 09/694,836
Sheet	4	of	20	Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	UTSB 493 CIP CON (5)

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number Continuation of 09/694,838 Filing Date June 25, 2003 First Named Inventor Jeffrey A. Hubbell Group Art Unit Examiner Name Attorney Docket Number UTSB 493 CIP CON (5)	
Sheet	5	of	20

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				Application Number	Continuation of 09/694,836
				Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
Sheet	6	of	20	Attorney Docket Number	UTSB 493 CIP CON (5)

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
<i>an</i>		ALTMAN, et al., "Long-term plasma glucose normalization in experimental diabetic rats with microencapsulated implants of benign human insulinomas," <i>Diabetes</i> 35:625-33 (1986).	
<i>an</i>		AMUDESWARI, et al., "Short-term biocompatibility studies of hydrogel-grafted collagen copolymers," <i>J. Biomed. Materials Res.</i> 20:1103-09 (1986).	
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<i>an</i>		COHN, et al., "Biodegradable PEO/PLA block copolymer," <i>J. Biomed. Materials Research</i> 22:993-1009 (1988).	
<i>an</i>		COLEMAN, et al., "Blood-materials interactions: The minimum interfacial free energy and the optimum polar/apolar ratio hypothesis," <i>J. Biomed. Material Res.</i> 16:381-398 (1982).	
<i>an</i>		CROOKS, et al., "Microencapsulation of mammalian cells in a HEMA-MMA copolymer: effects on capsule morphology and permeability," <i>J. of Biomedical Materials Res.</i> 24:1241-62 (1990).	

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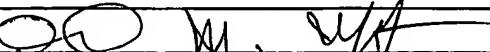
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dm		DARQUY, et al., "Immunosolation of pancreatic cells by microencapsulation – an <i>in vitro</i> study," <i>Diabetologia</i> 28:776-80 (1985).
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<i>an</i>		FUKUI, et al., "Entrapment of biocatalysts with photo-cross-linkable resin prepolymers and urethane resin prepolymers," <i>Methods in Enzymology</i> 135:230-53 (1987).				

Examiner's Signature	<i>DR. M. H.</i>	Date Considered	<i>1/23/00 P</i>
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<i>gr</i>		FUKUI, et al., "Several novel methods for immobilization of enzymes microbial cells and organelles," <i>Biochimie</i> 62:381-86 (1980).	
		FUKUZAI, et al., "A new biodegradable copolymer of glycolic acid and lactones with relatively low molecular weight prepared by direct copolycondensation in the absence of catalysts," <i>J. of Biomedical Materials Research</i> 25:315-28 (1991).	
		GABBAY, et al., "New outlook on pericardial substitution after open heart operations," <i>Ann. Thorac. Surg.</i> 48:803-12 (1989).	
		GHARAPATIAN, et al., "Encapsulation of viable cells within polyacrylate membranes," <i>Biotechnology and Bioengineering</i> 28:1595-1600 (1986).	
		GHARAPATIAN, et al., "Polyacrylate microcapsules for cell encapsulation: Effects of copolymer structure on membrane properties," <i>Biotechnology and Bioengineering</i> 30:775-79 (1987).	
		GIBBLE, et al., "Fibrin glue: the perfect operative sealant?," <i>Transfusion</i> 30(8):741-47 (1990).	
		GIN, et al., "Agarose encapsulation of islets of langerhans: Reduced toxicity <i>in vitro</i> ," <i>J. Microencapsulation</i> 4:239-42 (1987).	
		GOLANDER, et al., "Preparation and protein adsorption properties of photopolymerized hydrophilic films containing N-vinylpyrrolidone (NVP), acrylic acid (AA) or ethyleneoxide (EO) units as studied by ESCA," <i>Colloids and Surfaces</i> 21:149-65 (1988).	
		GOLDBERG, et al., "An evaluation of the gore-tex surgical membrane for the prevention of postoperative peritoneal adhesion," <i>Obstetrics and Gynecology</i> 70(6):846-48 (1987).	
<i>gr</i>		GOMBOTZ, et al., "Immobilization of poly(ethylene oxide) on poly(ethylene terephthalate) using a plasma polymerization process," <i>J. of Applied Polymer Science</i> 37:91-107 (1989).	

Examiner's Signature	<i>gr</i> <i>JK</i> <i>WT</i>	Date Considered	11/23/06
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Sheet	10	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

OTHER ART -- NON PATENT LITERATURE DOCUMENTS		
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<i>DR</i>		GOOSEN, et al., "Optimization of microencapsulation parameters: Semipermeable microcapsules as a bioartificial pancreas," <i>Biotechnology and Bioengineering</i> 27:146-50 (1985).
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		HELLER, et al., "Controlled release of water-soluble macromolecules from biodegradable hydrogels," <i>Biomat.</i> 40:262-66 (1983).
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		HOLLAND, et al., "Polymers for biodegradable medical devices. 1. The potential of polyesters as controlled macromolecular release systems," <i>J. Controlled Release</i> 4:155-80 (1986).
		HOLTZ, "Prevention and management of peritoneal adhesions," <i>Fertility and Sterility</i> 42(4):497-07 (1984).
		HORBETT, "Mass action effects on competitive adsorption of fibrinogen from hemoglobin solutions and from plasma," <i>Rhomb. Haemostas.</i> (Stuttgart), 51(2):174-81 (1984).
<i>DR</i>		HU, et al., "Effect of soft segment in degradation kinetics in polyethylene glycol/poly(L-lactide) block copolymers," <i>Polymer Bulletin</i> 30:669-76 (1993).

Examiner's Signature	<i>DR M. J. H.</i>	Date Considered	<i>1/23/06</i>
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Sheet	11	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>dm</i>		HUFFMAN, et al., "Effect of carboxyl end groups on hydrolysis of polyglycolic acid," <i>J. Polymer Science, Polymer Chemistry Edition</i> 23:1939-1951 (1985).	
		HUNT, et al., "Synthesis and evaluation of a prototypal artificial red cell," <i>Science</i> 6:1165-68 (1985).	
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		KAREL, et al., "The immobilization of whole cells: engineering principals," <i>Chemical Engineering Science</i> 40(8):1321-54 (1985).	
<i>dm</i>		KARU, "Yearly review - Effects of visible radiation on cultured cells," <i>Photochemistry and Photobiology</i> 52(6): 1089-98 (1990).	

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Sheet	12	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>an</i>		KENLEY, et al., "Poly(lactide-co-glycolide) decomposition kinetics <i>in vivo</i> and <i>in vitro</i> ," <i>Macromolecules</i> 20:2398-2403 (1987).
		KIMURA, et al., "Some properties of an immobilized glycosys system of yeast in fermentative phosphorylation of nucleotides," <i>European J. Ann. Microbiol. Biotechnol.</i> 11:78-80 (1981).
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		KUMAKURA, et al., "Immobilization of microbial cells in membrane form by radiation-induced cast-polymerization," <i>Die Angewandte Makromol. Chem.</i> 115:75-86 (1986).
<i>an</i>		LACY, et al., "Maintenance of normoglycemia in diabetic mice by subcutaneous xenografts of encapsulated islets," <i>Science</i> 254:1782-94 (1991).

Examiner's Signature	<i>DR. M. W.</i>	Date Considered
		<i>1/31/06</i>

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	Continuation of 09/694,836
Sheet	13	of	20	Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
				Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>an</i>		LAMBERTI, et al., "Microencapsulation of mammalian cells in polyacrylates," <i>Applied Biochemistry and Biotechnology</i> 10:101-05 (1984).
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<i>an</i>		MAYER, et al., "Effect of viscous macromolecules on peritoneal plasminogen activator activity: A potential mechanism for their ability to reduce postoperative adhesion formation," <i>Am. J. Obstet. L Gynecol.</i> 159(4):957-63 (1988).

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet	14	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

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<i>an</i>		McMAHON, et al., "Feasibility of cellular microencapsulation technology for evaluation of anti-human immunodeficiency virus drug <i>in vivo</i> ," <i>J. Nat. Cancer Inst.</i> 82(22):1761-65 (1990).	
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<i>an</i>		NECKERS, et al., "Photopolymerization using derivatives of fluorescein," American Chemical Society, <i>Proceedings of the ACS Division of Polymeric Materials: Science and Engineering</i> , 60:15-16 (1989).	

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<i>DR</i>		NOJIRI, et al., "In Vivo protein adsorption onto polymers: A transmission electron microscopic study," <i>Trans. Am. Soc. Artif. Intern. Organs</i> 35:357-61 (1989).
		O'SHEA, et al., "Encapsulation of rat Islets of langerhans prolongs xenograft survival in diabetic mice," <i>Diabetes</i> 35:943-46 (1986).
		OKADA, et al., "Application of entrapped growing yeast cells to peptide secretion system," <i>Appl. Microbiol. Biotechnol.</i> 26:112-16 (1987).
		OMATA, et al., "Immobilization of microbial cells and enzymes with hydrophobic photo-crosslinkable resin prepolymers," <i>European J. Appl. Microbiol.</i> 6:207-15 (1979).
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		PAGIDAS, et al., "Effect of ringer's lactate. Interceed (TC7) and gore-tex surgical membrane on postsurgical adhesion formation," <i>Fertility and Sterility</i> 57(1): 199-01 (1992).
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		PETERSON, "Polyethylene glycol diacrylates as embedding media for electron microscopy," Thirtieth Annual Meeting, Electron Microscopy Society of America and First Pacific Regional Conference on Electron Microscopy, 144-45 (1972).
<i>DR</i>		PHILIPS, et al., "Radiation curable water dilutable polyester acrylates," <i>European Polymers Paint Colour J.</i> 183(4322): 38-40 (1993).

Examiner's Signature	<i>DR M. W.A.</i>	Date Considered
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Sheet	16	of	20
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<i>DR</i>		PITT, et al., "Aliphatic polyesters. I. The degradation of Poly-caprolactone) <i>in vivo</i> ," <i>J. Applied Polymer Science</i> 26:3779-87 (1981).	
		PITT, et al., "Aliphatic polyesters. II. The degradation of poly(DL-lactide), poly (caprolactone), and their copolymers <i>in vivo</i> ," <i>Biomaterials</i> 2:215-20 (1981).	
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Examiner's Signature	<i>DR M. WY</i>	Date Considered	<i>1/23/04</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>		Application Number	Continuation 109/694,838
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet	17	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

OTHER ART - NON PATENT LITERATURE DOCUMENTS		
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
<i>an</i>		SAWHNEY, et al., "Poly(ethylene oxide)-graft-poly(L-lysine) copolymers to enhance the biocompatibility of poly(L-lysine)-alginate microcapsule membranes," <i>Biomaterials</i> 13(12):863-870 (1992).
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				Filing Date	June 25, 2003
				First Named Inventor	Jeffrey A. Hubbell
				Group Art Unit	
				Examiner Name	
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<i>an</i>		STEVENSON, et al., "Microencapsulation of mammalian cells in a hydroxyethyl methacrylate-methyl methacrylate copolymer: Preliminary development," <i>Biomat. Art. Cells</i> 16:747-69 (1988).	
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		TANAKA, et al., "Immobilization of yeast microbodies by inclusion with photo-crosslinkable resins," <i>Eur. J. Biochem.</i> 80:193-97 (1977).	
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		URETZKY, et al., "Long-term evaluation of a new selectively biodegradable vascular graft coated with polyethylene oxide-polylactic acid for right ventricular conduit," <i>J. Thorac Cardiovasc. Surg.</i> 133:769-80 (1990).	
<i>an</i>		URMAN, et al., "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," <i>Fertility and Sterility</i> 56(3):568-70 (1990).	

Examiner's Signature		Date Considered	<i>1/23/04</i>
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<i>John</i>		URMAN, et al., "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," <i>Fertility and Sterility</i> 56(3):563-67 (1991).	
		VAN NEERBOS, "Parameters in UV curable materials which influence cure speed," <i>J. Oil Col. Chem. Assoc.</i> 61(1):241-50 (1978).	
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		WUJEK, et al., "A carbohydrate polymer that effectively prevents epidural fibrosis at laminectomy sites in the rat," <i>Exp. Neurology</i> 114:237-45 (1991).	
		ZHU, et al., "Preparation and properties of D,L-lactide and ethylene oxide copolymer: A modifying biodegradable polymeric material," <i>J. Polymer Sci. Part C: Polymer Letters</i> 24:331-37 (1986).	
<i>John</i>		ZHU, et al., "Preparation characterization and properties of polylactide (PLA)- Poly(ethylene Glycol) (PEG) copolymers: A potential drug carrier," <i>J. Applied Sci.</i> 39:1-9 (1990).	

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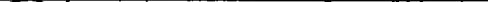
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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<i>de</i>		ZHU, et al., "Super microcapsules" (SMC), I. Preparation and Characterization of Star Polyethylene Oxide (PEO)-Polylactide (PLA) Copolymers," <i>J. Polymer Sci.: Part A: Polymer Chemistry</i> 27:2151-59 (1989).	

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